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1. AF141-054: Advanced Indexing and Search for Efficient Information Discovery

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Research & develop an advanced indexing and search capability that combines Information Extraction and Information Retrieval methods to enable rapid identification & discovery of relevant information in large (web scale) volumes of textual data. DESCRIPTION: Finding and extracting new knowledge from large volumes of textual data remains one of the most significant challenges to ...

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2. AF141-055: Enhancing Real Time Situational Awareness with Latent Relationship Discovery

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Provide improved real-time situational awareness through discovery of unknown relationships across multiple structured and unstructured textual data sources. DESCRIPTION: The number of textual data sources, formats, and types available to information analysts has exploded in recent years. Often, the relevant data about an entity or event of interest is scattered across multiple ...

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3. AF141-056: Early Design Analysis for Robust Cyberphysical Systems Engineering

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop an innovative automated design/analysis framework establishing consistent use of MARTE with UML, SysML and other design notations to enable robust engineering through early performance analysis in development of distributed, real-time systems. DESCRIPTION: Real Time Embedded Systems (RTES) are critical components of cyberphysical systems. Model Driven Engineering (MDE) i ...

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4. AF141-057: Living Plan

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Keep military plans alive by developing innovative ways of dynamically maintaining efficacy of military plans at the strategic, operational, and battle planning levels, as things change (i.e., keep plans current; keep plans executable). DESCRIPTION: We are looking for revolutionary ideas on how to enable the conduct of well-coordinated, synchronized military operations among all ...

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5. AF141-058: Architecture for Enterprise Anonymization

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop innovative methods for ensuring privacy and operations security (OPSEC) for individual users across an enterprise while searching, browsing or chatting on the Web. DESCRIPTION: Consider the following scenario: An important meeting is held at an Air Force organization. Immediately afterward there is a spike in web searches coming from that organization. Identification of ...

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6. AF141-062: Lightweight Electric Wires and Cables for Airborne Platforms and Battlefield Air Force Personnel

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop an electrical conductor that is lighter and has two- to three-times higher electrical conductivity per weight than comparably rated copper (Cu) or aluminum (Al) wires. DESCRIPTION: Electric wires and cables constitute by far the largest weight portion of aircraft electrical power systems, as well as a large fraction of an entire aircraft weight. Replacing Cu or Al wires ...

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7. AF141-063: Modeling the Impact of Silica Particle Ingestion on Turbomachinery Life

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop a decision support tool to determine the impact of silica particle ingestion on component service life of the engine hot section. DESCRIPTION: Operational requirements of commercial and military aircraft often render the traditional method of total avoidance of silica-rich particle contaminate ingestion infeasible. The 2010 Iceland volcanic ash cloud was of such a large ...

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8. AF141-064: Additive Metal Manufacturing (AMM) Process Development for Gas Turbine Engine Component Repair

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop and validate an additive-metal manufacturing repair process for complex engine components in aging Air Force (AF) fleets. DESCRIPTION: Gas turbine engine components experience damages such as fatigue, foreign object damage (FOD), erosion, and fretting wear that make the sustainment of fleets burdensome. Damaged components in most AF fleets are usually replaced with new ...

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9. AF141-065: Structural Health Monitoring (SHM) Methods for Aircraft Structural Integrity

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop fuse-like SHM techniques for the ASIP environment. Methods must be reliable, low cost, and durable. Methods must reduce maintenance burden, while maintaining safety. DESCRIPTION: The U.S. Air Force utilizes a damage-tolerant design approach to ensure the structural safety and reliability of the airframes on its fleet. A critical facet of this damage-tolerant design appro ...

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10. AF141-066: Use more accurate aircraft usage data in predicting life and scheduling inspections

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Obtain a more accurate prediction of remaining life and inspection interval for an individual aircraft by converting actual aircraft usage data into stresses on the structure via

physics-based, real-time aeroservoelastic simulations. DESCRIPTION: The process of determining initial or remaining aircraft structure life has not significantly changed in 50 years. It is still a high ...

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